

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method for charging ~~at least one~~ a first battery ~~of a plurality of~~ batteries in a multiple battery charging station, the method comprising:

determining a status of ~~at least one~~ a parameter for the ~~at least one~~ first battery, wherein the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of,

an identification or serial number of the first battery;

a type of device to be powered by the first battery; or

a type of user to use a device powered by the first battery;

determining whether the ~~at least one~~ first battery is to be charged during a peak usage time period or an off-peak usage time period; ~~and~~

responsive to a determination that the ~~at least one~~ first battery is to be charged during the peak usage time period, determining a priority rating for charging the first battery relative to a second battery of the plurality of batteries ~~the at least one battery~~ based upon the status of the at least one parameter for the first battery; and, ~~wherein a battery closer to the desired charge level has a higher priority rating.~~

charging the first battery in accordance with the determined priority rating.

2-4. (Cancelled)

5. (Currently Amended) The method of claim 1, wherein determining a status of ~~at least one~~ the parameter for the ~~at least one~~ first battery comprises:

determining a number of ~~a~~ the plurality of batteries to be charged in the multiple battery charging station; and

determining ~~the~~ a status of the ~~at least one~~ parameter for each of the plurality of batteries.

6. (Cancelled)

7. (Currently Amended) The method of claim 5, wherein determining a priority rating for the ~~at least one~~ first battery comprises:

calculating a peak charge schedule for the plurality of batteries if the plurality of batteries are to be charged during the peak usage time period; and

calculating an off-peak charge schedule for the plurality of batteries if the plurality of batteries are to be charged during the off-peak usage time period.

8-11. (Cancelled)

12. (Currently Amended) A method for charging a plurality of batteries in a multiple battery charging station, the method comprising:

determining a status of ~~at least one~~ a parameter for each of the plurality of batteries, wherein the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of,

an identification or serial number of a given battery;

a type of device to be powered by a given battery; or

a type of user to use a device powered by a given battery;

determining if the plurality of batteries are to be charged during a peak usage time period

or an off-peak usage time period;

calculating a peak charge schedule, if the plurality of batteries are to be charged during the peak usage time period including,

determining a priority rating for each of the plurality of batteries based upon the status of the ~~at least one~~ parameter corresponding to the battery, wherein a battery closer to the desired charge level has a higher priority rating, and

setting a charge rate for charging each of the plurality of batteries based upon the determined priority rating for each of the plurality of batteries; and

calculating an off-peak charge schedule, if the plurality of batteries are to be charged during the off-peak usage time period including,

setting the charge rate for charging each of the plurality of batteries based at least upon the status of the ~~at least one~~ parameter corresponding to the battery and a time available for charging the battery.

13-16. (Cancelled)

17. (Currently Amended) A computer readable medium with program instructions tangibly stored thereon for charging ~~at least one~~ a first battery of a plurality of batteries in a multiple battery charging station, the program instructions comprising the instructions for:

determining a status of ~~at least one~~ a parameter for the ~~at least one~~ first battery, wherein the ~~at least one~~ parameter comprises a closeness to a desired charge level is one of,

an identification or serial number of the first battery;

a type of device to be powered by the first battery; or

a type of user to use a device powered by the first battery;

determining whether the ~~at least one~~ first battery is to be charged during a peak usage time period or an off-peak usage time period; and

responsive to a determination that the ~~at least one~~ first battery is to be charged during the peak usage time period, determining a priority rating for charging the first battery relative to a second battery of the plurality of batteries ~~the at least one battery~~ based upon the status of the at least one parameter for the first battery; and, ~~wherein a battery closer to the desired charge level has a higher priority rating.~~

charging the first battery in accordance with the determined priority rating.

18-20. (Cancelled)

21. (Currently Amended) The computer readable medium of claim 17, wherein the instructions for determining a status of ~~at least one~~ the parameter for the ~~at least one~~ first battery comprises instructions for:

determining a number of ~~a~~ the plurality of batteries to be charged in the multiple battery charging station; and

determining ~~the~~ a status of the ~~at least one~~ parameter for each of the plurality of batteries.

22. (Cancelled)

23. (Currently Amended) The computer readable medium of claim 21, wherein the instructions for determining a priority rating for the ~~at least one~~ first battery comprises

instructions for:

calculating a peak charge schedule for the plurality of batteries, if the plurality of batteries are to be charged during the peak usage time period; and

calculating an off-peak charge schedule for the plurality of batteries, if the plurality of batteries are to be charged during the off-peak usage time period.

24-27. (Cancelled)

28. (Currently Amended) A computer readable medium with program instructions tangibly stored ~~thereon~~ thereon for charging a plurality of batteries in a multiple battery charging station, the program instructions comprising ~~the~~ instructions for:

determining a status of ~~at least one~~ a parameter for each of the plurality of batteries, wherein the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of,

an identification or serial number of a given battery;

a type of device to be powered by a given battery; or

a type of user to use a device powered by a given battery;

determining if the plurality of batteries are to be charged during a peak usage time period or an off-peak usage time period;

calculating a peak charge schedule, if the plurality of batteries are to be charged during the peak usage time period including,

determining a priority rating for each of the plurality of batteries based upon the status of the ~~at least one~~ parameter corresponding to the battery, ~~wherein a battery closer to the desired charge level has a higher priority rating~~, and

setting a charge rate for charging each of the plurality of batteries based upon the determined priority rating for each of the plurality of batteries; and  
calculating an off-peak charge schedule, if the plurality of batteries are to be charged during the off-peak usage time period including,

setting the charge rate for charging each of the plurality of batteries based at least upon the status of the ~~at least one~~ parameter corresponding to the battery and a time available for charging the battery.

29-32. (Cancelled)

33. (Previously Presented) The method of claim 1, wherein:

the peak usage time period corresponds to a time of day during which the at least one battery is to be used to power a device; and

the off-peak usage time period corresponds to a remainder of the day.

34. (Currently Amended) The computer readable medium of claim 17, wherein:

the peak usage time period corresponds to a time of day during which the at least one battery is to be used to power a device; and

the off-peak usage time period corresponds to a remainder of the day.